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L2	65892	(configurat$3 with (table or tuple or array))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:13
L3	1715	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:00
L4	240	3 and (network with database)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:13
L5	22	4 and (priorit$3 with configurat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:01
L6	9	5 and @ad<"20020729"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:14
L7	399452	((configurat$3 or control$4) with (table or tuple or array))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:13
L8	775	1 and 7 and (network with database)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:13

L9	16	8 and (wireless with identity) and @ad<"20020729"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:20
L10	30	8 and (wireless same identity) and @ad<"20020729"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:22
L11	99	8 and (wireless same identification) and @ad<"20020729"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 13:22
L12	48	8 and (wireless same ID) and @ad<"20020729"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 14:18
L13	10	8 and (wireless same ID) and @ad<"20020729" and (priority with connect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 14:27
L14	45	8 and @ad<"20020729" and (priority with connect$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 14:39
L15	1	11 and (707/10).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 14:41
L16	4	11 and (370/329).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/03 14:41

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1 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

2 SWiMNet: a scalable parallel simulation testbed for wireless and mobile networks

Azzedine Boukerche, Sajal K. Das, Alessandro Fabbri

September 2001 **Wireless Networks**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(397.98 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a framework, called SWiMNet, for parallel simulation of wireless and mobile PCS networks, which allows realistic and detailed modeling of mobility, call traffic, and PCS network deployment. SWiMNet is based upon event precomputation and a combination of optimistic and conservative synchronization mechanisms. Event precomputation is the result of model independence within the global PCS network. Low percentage of blocked calls typical for PCS networks is exploited in the channel alloca ...

Keywords: PCS network models, framework for PCS network simulation, parallel discrete event simulation, performance analysis

3 Improving reliable transport and handoff performance in cellular wireless networks

Hari Balakrishnan, Srinivasan Seshan, Randy H. Katz

December 1995 **Wireless Networks**, Volume 1 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings

TCP is a reliable transport protocol tuned to perform well in traditional networks where congestion is the primary cause of packet loss. However, networks with wireless links and mobile hosts incur significant losses due to bit-errors and hand-offs. This environment violates many of the assumptions made by TCP, causing degraded end-to-end performance. In this paper, we describe the additions and modifications to the standard

Internet protocol stack (TCP/IP) to improve end-to-end reliable tr ...

4 DG: a scalable approach for broadcasting data securely in wireless networks
Aslihan Celik, Anindya Datta
May 2003 **Wireless Networks**, Volume 9 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(229.72 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the problem of providing *secure access control* in broadcast schemes in a wireless network. We consider an environment where clients subscribe to information objects sent via a broadcast onto a wireless network. In this context, a client should only be able to access its objects of interest for its subscription period, and the security system used must not be easily broken. Existing data broadcasting approaches fail to perform well with increased client loads. In this ...

Keywords: data broadcasting, information security, push technology, secure access control, simulation, wireless networks

5 Broadcast protocols to support efficient retrieval from databases by mobile users
Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar
March 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(638.48 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important probllem. Such protocols are employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

6 System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: pdf(385.22 KB) Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

7 A scalable approach for broadcasting data in a wireless network
Aslihan Celik, Anindya Datta
July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**
Publisher: ACM Press

Full text available: pdf(742.32 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the problem of providing *secure access control* in broadcast schemes in a wireless network. We consider an environment where clients subscribe to information objects sent via a broadcast onto a wireless network. In this context, a client should only be able to access its objects of interest for its subscription period, and the security system used must not be easily broken. Existing data broadcasting approaches fail to perform well with increased client loads. In th ...

Keywords: data broadcasting, information security, push technology, secure access control, simulation, wireless networks

8 TinyDB: an acquisitional query processing system for sensor networks

Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong
March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, index terms

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (*sampled*) and delivered to query processing operators. By focusing on the locations and costs of acquiring data, we are able to significantly reduce power consumption over traditional passive systems that assume the a priori existence of data. We discuss simple extensions to SQL for controlli ...

Keywords: Query processing, data acquisition, sensor networks

9 Multiclass priority fair queuing for hybrid wired/wireless quality of service support

Jay R. Moorman, John W. Lockwood
August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**
Publisher: ACM Press
Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms

10 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**
Publisher: ACM Press
Full text available: pdf(334.54 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

11 Research sessions: P2P and sensor networks: Compressing historical information in

sensor networks
Antonios Deligiannakis, Yannis Kotidis, Nick Roussopoulos
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(172.89 KB) Additional Information: full citation, abstract, references

We are inevitably moving into a realm where small and inexpensive wireless devices would be seamlessly embedded in the physical world and form a wireless sensor network in order to perform complex monitoring and computational tasks. Such networks pose new challenges in data processing and dissemination because of the limited resources (processing, bandwidth, energy) that such devices possess. In this paper we propose a new technique for compressing multiple streams containing historical data fro ...

12 Modeling methodology a: Simulation of large scale networks II: large-scale network simulations with GTNetS
George F. Riley
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**
Publisher: Winter Simulation Conference
Full text available: pdf(170.47 KB) Additional Information: full citation, abstract, references

When designing a network simulation environment intended specifically for modeling large-scale topologies, a number of issues must be addressed by the simulator designer. Memory requirements for network simulation engines can grow quadratically with the size of the simulated topology and can easily exceed available memory on modern workstations. The number of outstanding simulation events grows linearly with the number of packets in flight being modeled, and can lead to performance bottleneck ...

13 Scalable, memory efficient, high-speed IP lookup algorithms
Rama Sangireddy, Natsuhiko Futamura, Srinivas Aluru, Arun K. Somani
August 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 4
Publisher: IEEE Press
Full text available: pdf(699.74 KB) Additional Information: full citation, abstract, references, index terms

One of the central issues in router performance is IP address lookup based on longest prefix matching. IP address lookup algorithms can be evaluated on a number of metrics--lookup time, update time, memory usage, and to a less important extent, the time to construct the data structure used to support lookups and updates. Many of the existing methods are geared toward optimizing a specific metric, and do not scale well with the ever expanding routing tables and the forthcoming IPv6 where the IP a ...

Keywords: IP packet forwarding, address lookups, longest prefix matching, routing tables, scalability

14 Data and memory optimization techniques for embedded systems
P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. Vandercappelle, P. G. Kjeldsberg
April 2001 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 6 Issue 2
Publisher: ACM Press
Full text available: pdf(339.91 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a survey of the state-of-the-art techniques used in performing data and memory-related optimizations in embedded systems. The optimizations are targeted

directly or indirectly at the memory subsystem, and impact one or more out of three important cost metrics: area, performance, and power dissipation of the resulting implementation. We first examine architecture-independent optimizations in the form of code transoformations. We next cover a broad spectrum of optimizati ...

Keywords: DRAM, SRAM, address generation, allocation, architecture exploration, code transformation, data cache, data optimization, high-level synthesis, memory architecture customization, memory power dissipation, register file, size estimation, survey

15 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

16 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

17 A layered protocol architecture for multimedia wireless-PCS networks

Antonio Iera, Salvatore Marano, Antonella Molinaro
June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(575.41 KB) Additional Information: full citation, abstract, references, index terms

Coupled with the growing interest in the Universal Mobile Telecommunication System (UMTS) as a standard for future mobile communications, the need for a set of functions to effectively support multimedia teleservices in such an environment is also increasing. Starting from the idea that multimedia means the integrated manipulation of different information and hence the independent handling of separate information is not satisfactory, an enhanced protocol architecture for the support of mult ...

18 The click modular router

Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek
August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3
Publisher: ACM Press
Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(376.31 KB) terms

Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

Keywords: component systems, routers, software router performance

19 Routing in wireless networks: A prioritized battery-aware routing protocol for wireless ad hoc networks

Chi Ma, Yuanyuan Yang

October 2005 **Proceedings of the 8th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems MSWiM '05**

Publisher: ACM Press

Full text available: pdf(253.64 KB) Additional Information: full citation, abstract, references, index terms

It is a challenge area in the field of ad hoc networks to support prioritized routing for time sensitive applications, such as multimedia communications, IP telephony and interactive games. However the existing protocols did not consider the special battery discharging behavior of wireless devices. The limited power supply on wireless devices becomes the bottleneck for prioritized routing in ad hoc networks. Recent study in battery technology reveals that the behavior of battery discharging is m ...

Keywords: battery models, battery-awareness, energy efficiency, prioritized routing, routing protocols, wireless ad hoc networks

20 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Publisher: ACM Press

Full text available: pdf(16.07 MB) Additional Information: full citation

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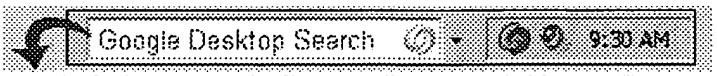
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